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GOVERNOR

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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COMMISSIONER

Department of Environmental Protection
Intra-Department Memo

To: Carla Hopkins, Division of Solid Waste
From: Michael Hudson, Division of Oil and Hazardous Waste Facilities Regulation *M 54*
Re: Hazardous Waste Questions from Blue Ribbon Commission on Solid Waste
Date: September 15, 2006

In response to the questions posed by the Blue Ribbon Commission on Solid Waste, I hope the following information is helpful:

1. Examples of hazardous wastes represented by specific waste codes

<u>Waste Code</u>	<u>Examples</u>
D001	Any waste liquid with a flash point of less than 40 degrees F Waste petroleum naphtha solvent from parts cleaning Waste mineral spirits Waste ignitable solutions of solvent blends
D002	Acidic wastes with pH of 2 or less Caustic wastes with pH of 12.5 or greater Waste sulfuric acid solutions from metal plating Waste sodium hydroxide solutions from parts cleanings
D004 -D0011	Wastes contaminated with heavy metals such as arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver over specific threshold levels (examples include silver-contaminated waste photographic fixer solution, chromium-contaminated solutions from metal plating, lead-contaminated sand blast debris, mercury-contaminated sludge from chlorine production)
F001 - F005	Specifically listed waste solvents such as methylene chloride, perchloroethylene, acetone, toluene, xylene; or wastes contaminated with these solvents

2. Examples of hazardous wastes generated by specific industries

<u>Industry</u>	<u>Hazardous Waste (and codes)</u>
Auto Body shops	Waste paint and thinners (D001, F005)

AUGUSTA

17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
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RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769-2094
(207) 764-0477 FAX: (207) 760-3143

Boat builders	Waste acetone (F003), waste paint and thinners (D001, F005)
Dry cleaners	Waste perchloroethylene-contaminated filters (F001)
Machine shops	Waste petroleum naphtha, parts cleaners (D001)
Metal plating	Waste acid solutions (D002), waste chrome solutions (D007)
Paper mills	Waste sodium hydroxide (D002), waste sulfuric acid (D002)
Printers	Waste blanket wash (D001) from cleaning presses

3. How much of the total volume of hazardous waste generated in 2003 and 2004 was processed versus disposed?

Based on data from 2003, it is estimated that approximately 6% of the total volume of hazardous waste shipped was sent to out-of-state facilities for processing to recovery or recycle a portion of the waste (for solvent, metals or energy recovery) and approximately 94% was sent to facilities which ultimately disposed of the hazardous waste through treatment, incineration, or land disposal.

Based on data from 2004, it is estimated that approximately 9% of the total volume of hazardous waste shipped was sent to out-of-state facilities for processing to recovery or recycle a portion of the waste (for solvent, metals or energy recovery) and approximately 91% was sent to facilities which ultimately disposed of the hazardous waste through treatment, incineration, or land disposal.

The relatively low percentages of recycling of hazardous waste are due, in part, to the fact that a large percentage of the total consisted of contaminated soil (see item #4 below), which has little recycling value and primarily is land-disposed. For the portion of the total hazardous wastes which did not consist of contaminated soil, about 20% of that portion is processed to recovery or recycle a portion of the waste (for solvent, metals or energy recovery).

4. How much of the total hazardous waste generated in Maine in 2003 and 2004 was contaminated soil?

<u>Year</u>	<u>Total HW generated</u>	<u>Contaminated soil portion</u>	<u>% of total</u>
2003	36,757,000 pounds	25,246,000 pounds	68.7%
2004	18,020,000 pounds	9,698,000 pounds	53.8%